

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-65. (cancelled)

66. (previously presented) An electrode adapted for use with a fuel cell, comprising:

a support structure derived from a silicon substrate, wherein the support structure has a plurality porous regions that define pore surfaces, and wherein the pore surfaces have a catalyst dispersed thereon such that the catalyst is noncontiguously dispersed throughout the plurality of porous regions.

67. (currently amended) The electrode of claim + 66 wherein the silicon substrate is a silicon wafer.

68. (currently amended) The electrode of claim + 66 wherein the catalyst comprises platinum, ruthenium, or a combination thereof.

69. (new) An electrode adapted for use with a fuel cell, comprising:  
a support structure derived from a silicon substrate, wherein the support structure has a plurality of parallel pores that extend through the support structure, and wherein the plurality of parallel pores define pore surfaces, and wherein at least a portion of the pore surfaces carries a catalyst thereon.

70. (new) The electrode of claim 69 wherein the silicon substrate is a silicon wafer.

71. (new) The electrode of claim 69 wherein the catalyst comprises platinum, ruthenium, or a combination thereof.

72. (new) The electrode of claim 69 wherein the plurality of parallel pores are nanoporous.

73. (new) The electrode of claim 69 wherein the plurality of parallel pores are mesoporous.

74. (new) The electrode of claim 69 wherein the plurality of parallel pores are microporous.

75. (new) The electrode of claim 69 wherein the plurality of parallel pores are ordered.

76. (new) The electrode of claim 69 wherein the plurality of parallel pores are random.